

GAPEX® RPP30EA49HB-BK

Polypropylene Homopolymer

Ferro Corporation

Message:

GAPEX®RPP30EA49HB-BK is a polypropylene homopolymer (PP Homopoly) material, and its filler is 30% glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding. GAPEX®The main characteristics of the RPP30EA49HB-BK are: chemical coupling.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Chemical coupling		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.30	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	75.8	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	5.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: 23°C	5270	MPa	ASTM D790
Tangent: 23°C	5360	MPa	ASTM D790
Flexural Strength (23°C)	116	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Unnotched Izod Impact (23°C)	440	J/m	ASTM D4812
Dart Drop Impact (23°C)	0.226	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	157	°C	ASTM D648
1.8 MPa, not annealed	146	°C	ASTM D648
Additional Information			
Testing and measurements were performed at 73 +/-3°F and 50 +/-5% relative humidity unless otherwise noted.			
Injection	Nominal Value	Unit	

Drying Temperature	71.1 - 82.2	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	221 - 238	°C
Middle Temperature	227 - 243	°C
Front Temperature	232 - 260	°C
Nozzle Temperature	232 - 260	°C
Processing (Melt) Temp	221 - 238	°C
Mold Temperature	37.8 - 65.6	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.138 - 0.345	MPa
Cushion	5.08 - 12.7	mm

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